

**CENTER FOR APPLIED MATHEMATICS AND STATISTICS**  
**COLLOQUIUM**

**Coupled Fluid Flow with Flow through a  
Porous Media**

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Abstract

In this presentation we will discuss the mathematical formulation for fluid flow coupled with flow through a porous media. Degenerate boundary conditions (flow rates specified) will be considered. Existence and uniqueness results for the solution of the continuous and discrete variational formulations will be shown.